

N A N O V I S I O N

UM-430 · UM-710 · UM-730 · UM-740 · UM-750

# User's Manual



## Table of Contents



# User's Manual



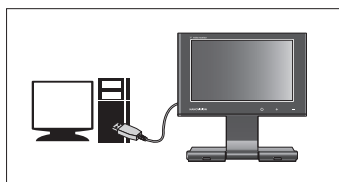
- 04** Safety Instructions
- 06** Product Features
- 07** Package Contents
- 08** Connections and Installation
- 09** Installing Monitor Driver
- 11** mimo Display Setting
- 12** Installing Touch Screen Controller
- 16** System Requirements and Restriction
- 17** Troubleshooting
- 20** Specifications

# Safety Instructions

These safety instructions must be followed to ensure your safety and prevent property damage.

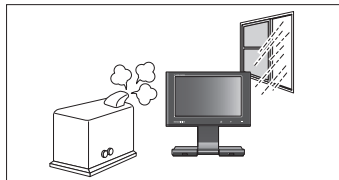
**Warning/Cautions** Otherwise, it may result in personal injury or property damage.

Make sure to read the instructions carefully and use the product in the correct manner.



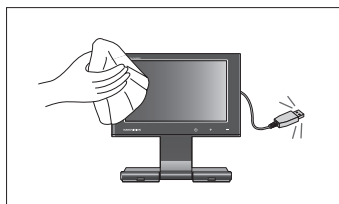
## Power Source:

- Make sure to use USB Cable (DC 5V, 500mA) only.
  - mimo doesn't require any additional power source



## Do not place mimo in a location exposed to moisture, dust, smoke, water, or in a car.

- Otherwise, this may result in electric shock or fire.



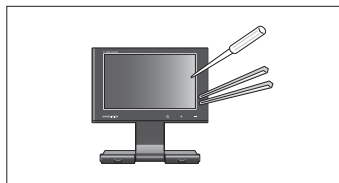
## Clean the product using a soft cloth with a monitor cleaner only.

- Make sure to disconnect USB Cable while cleaning
- Ensure that water does not enter the product and that it is not wet.
  - Otherwise, this may result in electric shock, fire or a malfunction.



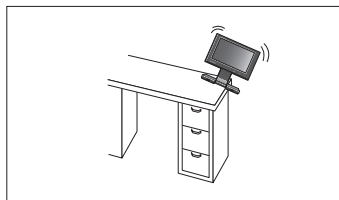
## Do not force on LCD(Touch Panel) Screen

- Do not tap or scratch LCD(Touch Panel) Screen with a sharp object.
  - Otherwise, LCD(Touch Panel) may get damage.



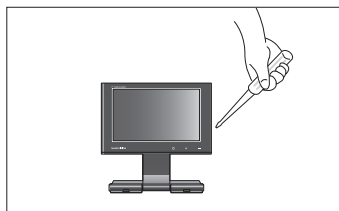
### Product Input/Output Connectors

- Do not insert any metal, such as chopsticks, coins, pins and steel,
- If foreign material enters the product, disconnect the USB cable and contact a Service Center.



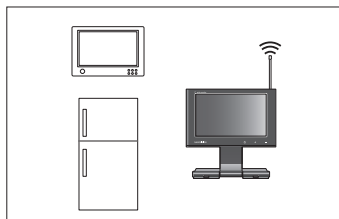
### Do not install mimo in an unstable location.

- Otherwise, it may fall and cause personal injury and/or damage the product.



### Ensure that users do not disassemble, repair or modify the product themselves.

- If the product needs to be repaired, contact a Service Center.



### Using DMB (UM-750 Only)

- Do not use the product near a microwave oven or a refrigerator.
- Electric wave or a radio wave may affect signal reception.
- Be careful with use of the Rod Antenna. It may cause personal injury on eyes






If water enters the product, disconnect the USB and contact a Service Center. This may result in a product malfunction, electric shock, or fire.

# Product Features

**mimo** is a USB powered monitor with Webcam, Mic, DMB TV, Touch Screen Display.

With only USB cable connection, a user may utilize mimo as Multiple Input/Output device for Video Conference, Instant Messaging, News and Stock casting.

Each model has different functions and features as listed Product Matrix below

Product Matrix					
Model Name	UM-430	UM-710	UM-730	UM-740	UM-750
Extension Monitor	●	●	●	●	●
Earphone Out			●	●	●
Built-in MIC			●	●	●
Touch Switch			●	●	●
Webcam				●	●
Touch Screen				●	●
Color	White+ Orange White + Green	White + Green Black + Silver	Black Wine	Black Wine	Black Wine
DTV					●
Photo					

\* Product Colors and Designs may vary upon each product and above listed specifications are subject to change without prior notice

# Package Contents

Please make sure the following items are included with your monitor.  
Contact a local dealer to buy optional items.



UM-430



UM-710



UM-730, UM-740, UM-750



UM-430 USB CABLE



UM-710/730/740/750 USB CABLE



User's Manual



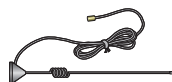
Install Disc



Audio Cable(UM-730, UM-750)



Rod Antenna (UM-750)

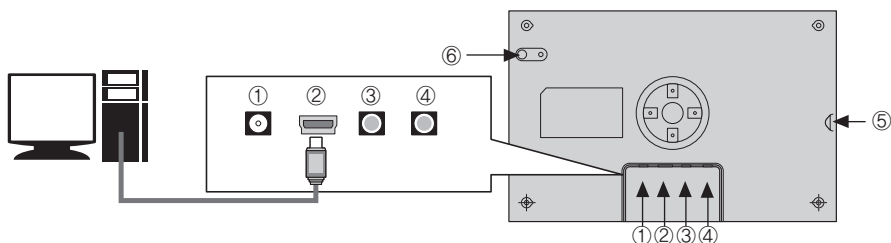


Extension Antenna (UM-750)

※ Package Contents are subject to vary upon each model If any items are missing, contact your dealer.

# Connections and Installation

mimo requires USB connection only.



- ① Emergency Power input : mimo doesn't require any additional power source except USB. Emergency Power input is for Factory or Technical Service purpose only.
- ② USB (mini B type) input : Using provided USB cable, connect your mimo with PC
- ③ Stereo In : Connect the provided stereo cable to the PC's stereo out (UM-730/740/750)
- ④ Mic : Connect the provided stereo cable to the PC's Mic in (UM-730/740/750)
- ⑤ Speaker out : Relay PC sound to Speakers or Headphones (UM-730/740/750)
- ⑥ DMB Antenna : Connect the provided Antenna (UM-750 only)

## Buttons



 Standby on/off

+, - (∧, ∨) LCD Brightness +/-

## System Requirements

- CPU : Intel Pentium/Celeron/AMD/K6/Athlon/Duron 1.2GHz or above
- RAM : 512MB RAM or above
- USB : at least one or more USB2.0 port
- HDD : 30MB HDD space above
- O/S : Windows 2000 SP4/XP SP2 32bit/Vista 32bit

## Using the Software

With only USB cable connection, a user may operate mimo as a Extension monitor with Webcam, Mic, Touch Screen Display, DMB TV.

(For more detail functions and features please refer to page 4 "Product Features")

# Installing Monitor Driver (AutoRun)

## Insert the CD into the CD-ROM drive

- Please make sure that your mimo is connected to the PC

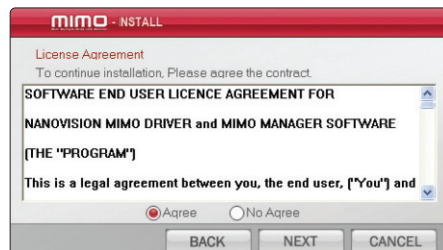


(If the CD is not running automatically please double-click the "Mimo Drive" among the CD contents)

## Installation takes about 1 minute.

- Do not power off or disconnect the USB cable until installation is completely finished. This may damage systems or may cause system errors.
- The mimo screen resolution is fixed for the best picture quality with each model.

1. Click the correct model name of your mimo (model name is printed on the product label at the rear case of the product)
2. Select "I agree to the terms of the license agreement" to accept the terms of use

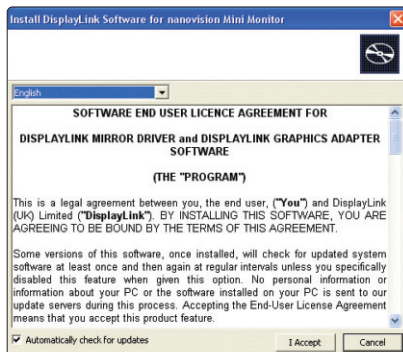


3. Select the Driver(s) you wish to install and click "Next"





5. If you see following message window, select "I agree" to accept the terms of use

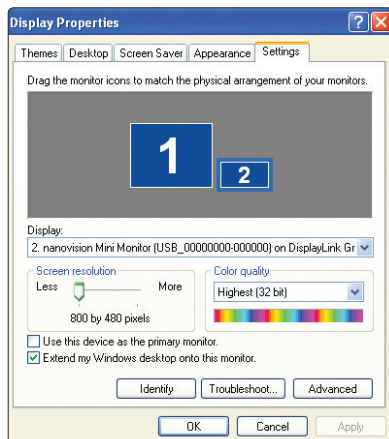


6. When the installation is complete, the mimo setting icon appears on your system tray and the connected USB monitor information will pop-up.



7. After finish installation of the mimo driver, please follow below steps for multi-monitor setting. (Microsoft® Windows® XP Operating System)

- ① Right-click on desktop then click "Display Properties"
- ② Choose 'Setting' then you may see connected monitors
- ③ Align the monitors displayed in [Display Properties] as the same as actual monitor usage.
- ④ Click 'OK' to confirm.



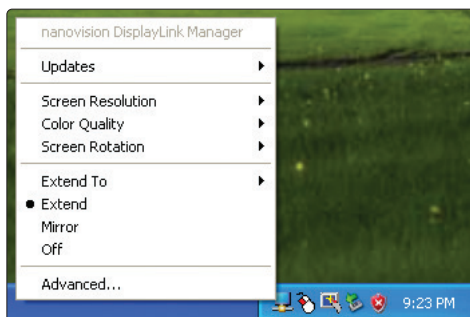
※ UM-430 (4.3" model) won't be displayed in [Display Properties] window, you may use mimo icon at the system tray for the monitor alignment.

# mimo display setting

1. When the mimo driver installation is complete, the mimo setting icon appears on your system tray.



2. Click-on mimo icon then you may see the mimo setup menu for Screen Resolution, Colors, Rotation, Extension and etc.



# Installing Touch Screen Controller (UM-740/UM-750 only)

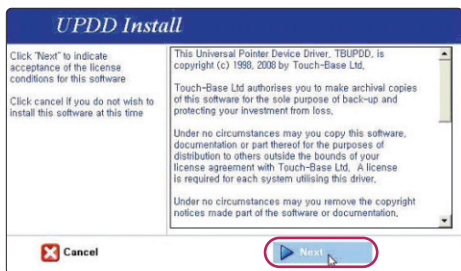
## 1. Selecting Controller

If you see following message window, select "E2i Technologies, NTR, USB" and click "Install".

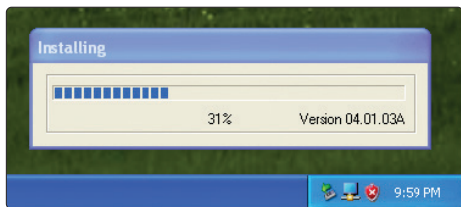


## 2. Installing the Controller

Click "Next" and follow on screen direction.



Program will display the progress.

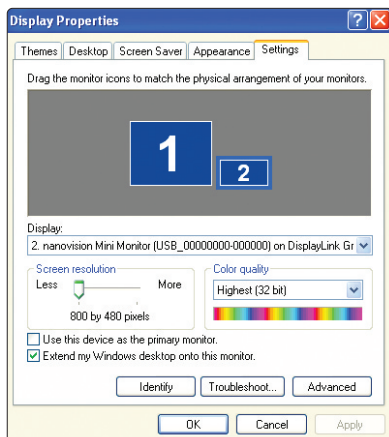


## 3. Finish Touch Screen Controller installation

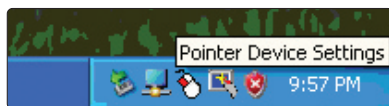
Click "Close" or <Enter> using keyboard.

#### 4. Settings and Calibrations

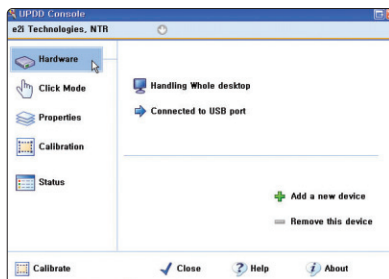
Check the monitor number of the installed mimo at “Display Properties”



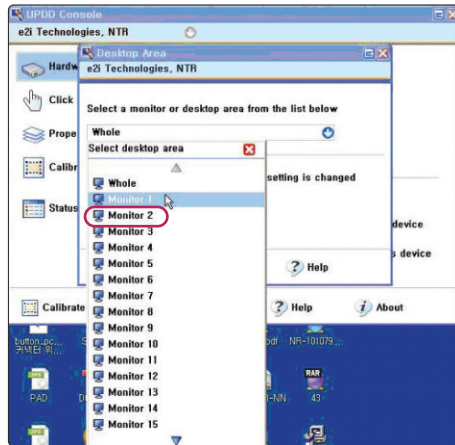
Right-click and Run the UPDD Consol (Pointer Device Setting) icon on system tray.



Chose Hardware and Click “Handling Whole desktop” menu



Select the monitor number of the installed mimo.



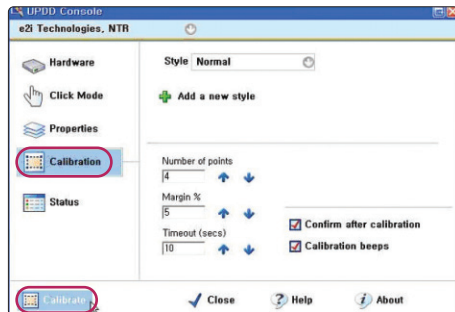
## Calibration

The product is with factory default calibration value. If required user may execute Touch Screen Controller Calibration as follow.

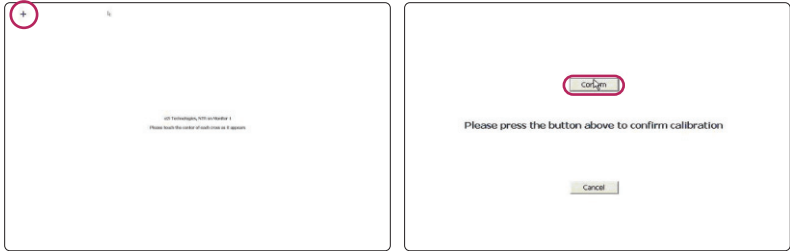
Calibration is very important procedure to align coordinates of the exact touch point on screen with mouse pointer. With the calibration user may utilize Touch Screen Control without distortion.

The last calibration data will be saved in the Windows system so as not to be required after reboot the system except the user rotate the screen.

- 1.1 Click 「Start」 → 「Programs」 → 「UPDD」 → 「Setting」.
- 1.2. Click UPDD Consol (Pointer Device Setting) icon on system tray → 「Calibration」.



Touch + mark position in order then「Confirm」



If calibration point inputs are correct click 「Confirm」

In case any mistake in calibration points inputs click 「Cancel」or leave the screen untouched for about 10 seconds then the Calibration Data will be scrapped.

※ The calibrated Touch Screen coordinates may vary upon the lapse of usage time.  
Periodical calibration is recommended.

# System Requirements & Restrictions

## 1. Operating Systems

- Windows XP
  - Service Pack 1 prior : Not supported
  - Service Pack 2 or after : Supported
- Windows 2000
  - Service Pack 3 prior : Not supported
  - Service Pack 4 or after : Supported
- Windows Server 2003: Not supported
- Windows Vista: Supported except 64bit systems

User may check the Operating System version by Right-click 'My Computer' → 'Properties' → 'System Properties'

## 2. **mimo** is a USB monitor to be recognized as a Generic USB device. Therefore system boot-up screen or DOS screen cannot be displayed properly.

## 3. Any software that requires Hardware 3D accelerator cannot be displayed properly with USB monitor. Such as below,

- Real Player (Expansion Mode)
- 3D Graphic Games
- Programs based on Direct X graphic engine

## 4. If the PC doesn't support USB2.0 mimo may not operate properly.

## 5. If the systems' Graphic card doesn't support WDDM(Windows Display Driver Model), the USM monitor's extension mode may not work properly with Windows Vista System.i.e.) Matrox Graphic Card specific version


# Troubleshooting

Before calling for assistance, please read carefully below. If you do need assistance, please call local service center or contact your dealer.

**Q** No image on screen, I cannot turn on the mimo.

**A** Is USB cable connected and did you install mimo driver yet? Please run 'mimo Installation Software' in the CD. For more detail about driver installation, please refer to Connections & Installation chapter

**Q** I cannot turn my mimo screen on.

**A** Please check if the USB cable is connected.  
Touch the mimo's power button (  ) once then check the screen status.  
Please check if 'mimo Installation Software' has been installed properly.

1. Right-click 'My Computer' → click 'Properties'.
2. Click 'Device Manager's at 'Hardware' tab.
3. Locate the cursor on PC at the top of the system tree.
4. Click 'Action(A)' → "Add Hardware(A)".
5. Reboot the PC.

\* Normal PC recognize mimo as a generic USB device. Frequent power on and off of the device may cause USB device error. Please refer to Microsoft customer support for USB devices't troubleshooting.

**Q** mimo screen doesn't move – stands still.

**A** Please check mimo screen's 'Hardware Acceleration' setting in desktop properties.  
Adjust 'Hardware Acceleration' value as 'Max'.

1. Right-click on Desktop to and open 'Display Properties'.
2. Click 'Setting' → Choose 'nanovision Mini Monitor'.
3. Click 'Advance(V)'.
4. Please check 'Hardware Acceleration' value as 'Max'.



**Q** I cannot boot my system after connecting mimo.

**A** in case i815 chipset One-Board Type PC system, please disable 'Legacy USB support' option in system BIOS menu and reboot the system.  
– BIOS setup method may differ from PC to PC, please refer to the User manual of the PC. Please refer to Microsoft homepage for more detail.

**Q** I cannot see DOS opening screen with mimo when my PC is booting up.

**A** mimo is a generic USB device. Since DOS doesn't recognize USB Device while booting-up, mimo cannot get video signal from the system..

**Q** I cannot run 3D graphic game with mimo screen.

**A** mimo is using USB2.0 interface (480Mbps) for video data transfer. Therefore any program that requires 3D high speed graphic acceleration cannot be displayed properly.  
– Restricted Programs,  
    (1) Real Player (Doesn't support Extension Mode)  
    (2) 3D Graphic Games  
    (3) Programs that requires Direct X graphic acceleration  
    (4) Power DVD  
    (5) Win DVD (Version 5 or later)  
– Supported Multimedia Players  
    (1) Windows Media Player (Version 10 or later)  
    (2) GOM Player  
    (3) KM Player

**Q** How to uninstall "mimo installation software"?

**A** 'Control Panel' → 'Program Add/Remove' → 'nanovision Mini Monitor' → Click 'remove'.

**Q** How many mimo can be connected to one PC?

**A** mimo is a generic USB device. Theoretically a PC can recognize up to 127 USB devices. However with the latest PC systems, we recommend number of USB monitors and each respective PC system requirements as below.  
1. 1~2 mimo connections – 1.2GHz CPU / 512 MB Memory  
2. 3~5 mimo connections – 1.8GHz CPU / 1GB Memory  
3. 6 mimo connections – 1.6GHz Dual core CPU / 1GB Memory

\* Display response rates on each USB monitor may vary upon the PC's resource management status.

**Q** mimo information remains in my 'Display Properties' even after disconnect or power off the mimo.

**A** The deactivated USB information implies power off or disconnected USB monitor status. To delete the deactivated monitor information, please uninstall 'nanovision Mini Monitor' driver. Once the driver is uninstalled, you may not use MIMO. To use mimo again please re-install the driver.

**Q** How can I clean the outer case/LCD Panel?

**A** Disconnect the USB cable and then clean the mimo with a soft cloth, using either a cleaning solution or plain water.  
Do not leave any detergent or scratches on the case. Do not let any water enter the monitor.

**Q** I lost mimo installation disc. Where can I get an additional installation disc?

**A** the installation software can be downloaded at mimo homepage ([www.mimo.bz](http://www.mimo.bz))

# Specifications

- **Model Name:** MIMO UM-430 (4.3 " WQVGA), UM-710(7 " VGA)  
UM-730(7 " WVGA/Webcam /MIC), UM-740(7 " WVGA/Webcam/MIC/TSP)  
UM-750(7 " WVGA/Webcam/MIC/TSP/DMB)
- **LCD Panel Size:** 10.92 cm(UM-430), 17.78 cm(UM-710/730/740/750)
- **Display Size:** 97mm(H) x 57 mm(V), 152.4 mm(H) x 91.4 mm(V),
- **Pixel Pitch:** 0.198mm(H)x0.198mm(V), 0.1905mm(H)x0.1905mm(V)
- **Number of Color:** 16.7M
- **Contrast:** 400:1
- **Input Power:** USB (DC 5V)
- **Screen Resolution:** WQVGA(480x272), WVGA(800x480)
- **Power Consumption:** 2W~4.5W
- **Dimension/Weight**

Model Name	UM-430	UM-710	UM-730	UM-740	UM-750
Dimension	129.5(W)x4.6(L) x 148.4~171(H)	195(W) x 97.5(L) x 180.2~209.9(H)		197(W) x 97.5(L) x 180.7~210.4(H)	
Weight	0.22kg	0.60kg	0.61kg	0.64kg	0.65kg

\* Specifications are subject to change without prior notice.



## WARRANTY

This SUPPLIER product is warranted for the period of twelve (12) months from the original date of purchase, against defective materials and workmanship. In the event that warranty service is required, you should contact the retailer from whom it was purchased, or contact mimo customer support below for technical advise or On-Site service.

### WARRANTY CONDITIONS

1. The warranty is only valid if, when warranty service is required, the warranty card is fully and properly completed and is presented with the original invoice or sales slip or confirmation, and the serial number on the product has not been defaced. And SUPPLIER's obligations are limited to the repair or, at its discretion, replacement of the product or the defective part.
2. Warranty repairs must be carried out by Authorised SUPPLIER Dealers or Authorised Service Centres. No reimbursement will be made for repairs carried out by non SUPPLIER Dealers and, any such repair work and damage to the products caused by such repair work will not be covered by this warranty.
3. This warranty covers non of the following:
  - a) Periodic check ups, maintenance and repair or replacement of parts due to normal wear and tear.
  - b) Cost relating to transport, removal or installation of the product.
  - c) Misuse, including the failure to use this product for its normal purposes or incorrect installation.
  - d) Damage caused by Lightning, Water, Fire, Acts of God, War, Public Disturbances, incorrect mains voltage, improper ventilation or any other cause beyond the control of SUPPLIER.
4. The consumers statutory rights in any applicable national legislation whether against the retailer arising from the purchase contract or otherwise are not affected by this warranty. Unless there is national legislation to the contrary, the rights under this warranty are the consumers sole rights and SUPPLIER, its subsidiaries and distributors shall not be liable for indirect or consequential loss or any damage to records, compact discs, videos or audio taper or any other related equipment or material.

Local Call Center	please refer to NanoVision Website <a href="http://www.nanovision.co.kr">http://www.nanovision.co.kr</a>
e-Mail Address	<a href="mailto:support@nanovision.co.kr">support@nanovision.co.kr</a>

IT IS STRONGLY RECOMMENDED THAT THE ORIGINAL PACKAGING THAT YOUR PRODUCT CAME IN, BE KEPT FOR FUTURE SAFE TRANSPORTAION.

For your reference, please enter the particulars of your purchase below and retain with your purchase documentation.

Product \_\_\_\_\_ Model No. \_\_\_\_\_

Serial No. \_\_\_\_\_ Date of Purchase \_\_\_\_\_

Retailer \_\_\_\_\_

mimo



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<http://www.nanovision.co.kr>